ABOUT THIS DEGREE PROGRAM

A FOUNDATION IN TECHNOLOGY
This program is anchored with Tech Core, curriculum designed to help you build a foundation of interdisciplinary skills you’ll need for today’s Internet of Things (IoT) economy. You’ll learn relevant skills in operating systems, programming, hardware, connectivity and security – giving you a hands-on foundation in engineering technology, information technology and software and information systems.

A PROGRAM TO FUEL YOUR FUTURE
With this program, you’ll not only be armed with the Tech Core experience, but you’ll also be exposed to a variety of concepts that can help guide your specialization choice in Big Data and Analytics, Software Design and Programming, and Web and Mobile Application Development.

IS THIS PROGRAM FOR YOU?
Interested in a career in software development but not sure where to focus? With this program, you’ll be become familiarized with methods for improving software design and application product development to help guide your degree specialization choice.

CAREER OPPORTUNITIES
Graduates of DeVry’s Software Development degree program may consider, but are not limited to, the following careers:

- Software Application Developer
- Software Systems Developer

WHAT YOU’LL LEARN

ESSENTIALS
- Communicate methods and findings
- Collaborate in dynamic work environments
- Solve complex problems
- Analyze numerical data
- Apply appropriate technologies

TECH CORE
- Produce, secure, operate and troubleshoot small enterprise networks
- Network, secure and deploy digital devices and sensors into the IoT ecosystem
- Solve technical problems using an algorithmic approach and basic programming and coding methods
- Install and configure operating systems using command-line interface (CLI)

PROGRAM
- Design web distributed systems
- Develop applications
- Analyze and design software systems
- Product life cycle management

QUICK FACTS

120 CREDIT HOURS
minimum credit hours required for graduation

2 YEARS + 8 MONTHS
minimum length to graduation

THE SMART WAY TO BE UNDECIDED
With our undecided model, you’ll be exposed to three different specializations and be better armed to choose your path.

IoT KIT
You can simulate the Internet of Things (IoT) experience wherever you are. With our IoT Kit, you’ll get hands-on experience in how IoT technologies work in the real world. Your kit will include digital devices, sensors and cloud-based tools you will use to build relevant IoT systems.

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1 Must declare a specialization by 60 credit hours for bachelor’s degree program.
2 Not including breaks. Assumes year-round, full-time enrollment. Additional program information may be found at https://www.devry.edu/online-programs.html.
3 The IoT Kit is a required expense and is not complimentary.
ESSENTIALS

COMMUNICATION SKILLS

ENGL112  Composition
ENGL135  Advanced Composition
ENGL216  Technical Writing
SPCH275  Public Speaking

HUMANITIES

ETHC232  Ethical and Legal Issues in the Professions
LAS432  Technology, Society, and Culture

SOCIAL SCIENCES

ECON312  Principles of Economics
SOSC185  Culture and Society
SOSC325  Environmental Sociology

MATHEMATICS AND NATURAL SCIENCES

MATH114  Algebra for College Students
MATH221  Statistics for Decision-Making
MATH234  Discrete Math in Information Technology
PHYS204  Applied Physics with Lab

PERSONAL AND PROFESSIONAL DEVELOPMENT

CARD405  Career Development
COLL148  Critical Thinking and Problem-Solving

TECH CORE

TECH CORE

CEIS101  Introduction to Technology and Information Systems
CEIS106  Introduction to Operating Systems
CEIS110  Introduction to Programming
CEIS114  Introduction to Digital Devices
NETW191  Fundamentals of Information Technology and Networking
NETW211  Fundamentals of Cloud Computing
SEC285  Fundamentals of Information Security

PROGRAM

INFORMATION SYSTEMS AND PROGRAMMING

CEIS236  Database Systems and Programming Fundamentals
CEIS312  Introduction to Artificial Intelligence and Machine Learning
CIS170C  Programming with Lab
CIS247C  Object-Oriented Programming with Lab

APPLICATION DEVELOPMENT

CEIS295  Data Structures and Algorithms
CIS321  Structured Analysis and Design
CIS339  Object-Oriented Analysis and Design
CIS355A  Business Application Programming with Lab

CAREER PREPARATION

CEIS299  Careers and Technology
CEIS499  Preparation for the Profession
MGMT404  Project Management
TECH460  Senior Project

EMBEDDED PROGRAMS

Acquire an additional two credentials with our unique 3-in-1 design. Courses in our Programming Essentials certificate and Information Technology and Networking associate degree are inserted within our online Software Development degree program. So you can earn a certificate and an associate degree on the way to your bachelor’s degree.

Bachelor’s Degree Program
Software Development

DEVELOPMENT

Demonstrate Skills at Every Step

BACHELOR’S

ASSOCIATE

CERTIFICATE

22 CREDIT HOURS

60 CREDIT HOURS

120 CREDIT HOURS

Students who have not chosen an area of specialization may begin the program in “Undecided” status; however, they must select a specialization by the time they have earned 60 semester credit hours toward their degree.

Available specializations are:
•  Big Data and Analytics
•  Software Design and Programming
•  Web and Mobile Application Development